

# **DIABETES**

## **LITERATURE INDEX**

NATIONAL INSTITUTE OF ARTHRITIS, METABOLISM, AND DIGESTIVE DISEASES

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# DIABETES LITERATURE INDEX

(By Authors, Hierarchy, and by Keywords in the Title)

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## *Order of Arrangement*

Arrangement of hierarchy  
MEDLARS terms included in hierarchy  
Hierarchical Subject Index  
Keyword Index  
Author Index

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## PREFACE

*Diabetes Literature Index* is a publication of the National Institute of Arthritis, Metabolism, and Digestive Diseases which has been prepared from MEDLARS (Medical Literature Analysis and Retrieval System) tapes furnished by the National Library of Medicine. This specialized information medium is being published to fill an existing great need in the field of diabetes and to assist the Institute in meeting its obligations to foster and support laboratory and clinical research into the nature, causes, and therapy for diabetes. Publication of *Diabetes Literature Index* makes available an index of all current scientific papers relevant to this field from the world literature.

It is hoped that the issuing of *Diabetes Literature Index* under the auspices of the National Institute of Arthritis, Metabolism, and Digestive Diseases will provide a much needed current awareness tool to scientists and will facilitate greater integration of research and clinical efforts in this field. *Diabetes Literature Index* has been published monthly since January 1966 and is cumulated at the end of each calendar year.

This publication is available free to National Institutes of Health grantees and contractors working in the field of diabetes, and libraries of medical schools. Requests from these *qualified* individuals to receive free copies of this publication must include their grant or contract number and the title of their project. These requests as well as address changes and other communications from these qualified recipients of free copies should be addressed to:

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National Institute of Arthritis,  
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The Secretary of the Department of Health, Education, and Welfare has determined that the publication of this periodical is necessary in the transaction of the public business required by law of this Department. Use of funds for printing this periodical has been approved by the Director of the Office of Management and Budget through April 30, 1975.

## EDITORIAL NOTE

*Diabetes Literature Index*, a publication of the National Institute of Arthritis, Metabolism, and Digestive Diseases (NIAMDD), was brought about through the cooperative efforts of two divisions of the National Institutes of Health (NIAMDD and the National Library of Medicine), a professional society (American Diabetes Association), three Universities (University of Minnesota, University of Rochester, and Case Western Reserve University) as well as a number of individual scientists. In this rather unique cooperative project, initiated in 1958, duplication of effort has been reduced to a minimum. The digital information generated from the original input of bibliographic citations to the National Library of Medicine's MEDLARS system is processed by computer in several different ways and ultimately used to compose the final printed pages of this *Diabetes Literature Index*.

Each month the MEDLARS magnetic tape furnished by the National Library of Medicine (NLM) is used for identification of the diabetes related literature. All bibliographic citations classified under subject headings which we have designated as Priority I, represent articles that are 100% diabetes-related; they are automatically copied onto a new magnetic tape and constitute over seventy percent of the citations appearing in this index. The citations appearing under Priority II and III are subject headings which include both diabetes-related and unrelated articles; these are printed on cards by the computer. The diabetes related citations are identified manually and the corresponding digital information is added to the next month's Priority I magnetic tape.

In the selection of this bibliography, diabetes-related literature has been defined in a rather arbitrary but broad, comprehensive manner with a view toward providing the widest possible coverage of related areas. To this end the following subjects have been included: the Islets of Langerhans in the pancreas, including their structure and pathologic alterations; insulin, its properties, assay, synthesis, release or degradation; the direct and indirect effects of insulin on target organs; blood glucose level, hyper- and hypo-glycemia; insulin antibodies and insulin resistance; insulin allergy; recent developments in intermediary metabolism; experimental and clinical as-

pects of diabetes, signs, symptoms, diagnosis, treatment, complications, and associated conditions. Also included are other hormones and agents whose effects are similar, opposite, synergistic or antagonistic to insulin, either in their primary or secondary effects on target organs. It should be noted that there are undoubtedly some omissions due to the empirical definition of the diabetes-related literature which was adopted and also-to the difficulties attendant in preparing such a large-scale bibliography by machine.

The *Diabetes Literature Index* is published in three formats: a hierarchical subject index, a key word in title index, and an author index. The magnetic tape version of these indexes, prepared at the University of Minnesota, is used to generate the copy for offset printing by the Government Printing Office on their Linotron.

**Hierarchical Subject Index:** This index differs from *Index Medicus* in that related terms are grouped together in a hierarchical relationship. Thus, all citations which are indexed under blood sugar, glucose tolerance, hyperglycemia, hypoglycemia, and glycosuria are grouped under the general heading "blood sugar, urine sugar and related topics." In both the Diabetes Key Word Index and in *Index Medicus* these terms are arranged alphabetically, and the corresponding citations are distributed at many different page locations. In some instances where only a few citations appear under several similar subject headings, these are grouped together under a more generic term; at times, a new non-MEDLARS index term is created to cover these groupings of subject headings. In some instances where many citations appear under a single subject heading, these are subdivided by using subheadings.

Although the hierarchical subject index is, in a sense, a miniaturized version of *Index Medicus* (dealing with the core diabetes literature) it provides a much greater depth of indexing. Many relevant citations included in the *Diabetes Literature Index* do not appear under the corresponding subject headings in *Index Medicus*; because of space limitations, only two or three of the ten or more index terms included on the MEDLARS magnetic tape are used in the printed version of *Index Medicus*. At times the reason why a given citation appears under a specific subject

heading may not be apparent from the article title. However, examination of the list of index terms for this citation (included in the Author Index under the principal author) will give the basis for this inclusion.

Beginning with the January 1971 issue, two sections are included in the Hierarchical Subject Index. In *Section 1*, "Diabetes Mellitus and Related Topics," the major subdivisions include the MEDLARS terms: Islets of Langerhans, Pancreas, Insulin, Glucagon, Blood and Urine Sugar; the subsection on "Diabetes," (Section 1.F) is extensively subdivided and many subheadings are used. In *Section 2*, "Endocrinology" is divided into subsections dealing with the individual endocrine glands. Hierarchical subject indexes related to Biochemistry and the organ systems (included in the experimental issues, published in February and March, 1969) are not included at this time; terms related to these subjects are, however, included in the Keyword Index.

A list of the subject headings included in the tree structure of the hierarchy (with their corresponding index numbers) and an alphabetic cross index of these subject headings is printed immediately preceding the Hierarchical Subject Index.

**Key Word Index:** For all of the diabetes-related literature chosen, key words in the title are identified by the computer and an expanded magnetic tape is prepared, listing the complete bibliographic citation under each key word. Most editorial decisions are made by the computer-disk-look-up-program using a master list of terms. Trivial words are deleted and specific word combinations are also selected. Abbreviations and word variant forms are replaced by the more commonly used key word. Inconsistencies between the British and American spellings are eliminated. In no case, however, is a change made within

the title itself. Words which have not appeared previously in the system are identified by the computer program and flagged for human decision.

With the publication of the hierarchical subject index, the key word index has been shortened. Diabetes is not included as a term in the key word index as it is covered in great detail in the hierarchical subject index. Although users may find the hierarchical subject index more useful for coverage of their broad interests, the key word index is advantageous in locating citations dealing with very specific terms—for example those relating to biochemistry or the organ systems. The key word index is of special value in locating citations dealing with the frontiers of diabetes research, for new terms appearing in the title are immediately included in the key word index.

**Author Index:** Because of space limitations, the printed version of *Index Medicus* excludes all but the first three authors in multiple author publications. However since the last author is often the best known, this name may be the most useful for reference or retrieval; therefore, all authors are included in the Diabetes Literature Author Index. These are automatically identified by the computer program and an alphabetized magnetic tape is prepared in which the complete bibliographic citation is included under each author. In addition, all of the index terms used by the NLM for each citation are listed under the principal author, thus providing an overview of the subject content of the article.

Users planning to systematically cover all articles appearing in a given month may do so by scanning the author index, limiting their perusal to the principal author, i.e., those citations which contain the MEDLARS index terms.

# Arrangement of the Hierarchical Index

1	SECTION 1. DIABETES MELLITUS AND RELATED TOPICS	1.E.3.5	HYPERGLYCEMIA, DRUG THERAPY
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1.A.1	ISLANDS OF LANGERHANS, ANATOMY RELATED	1.E.3.7	HYPERGLYCEMIA, METABOLISM
1.A.2	ISLANDS OF LANGERHANS, BIOCHEMISTRY RELATED	1.E.3.8	HYPERGLYCEMIA, PHYSIOPATHOLOGY
1.A.3	ISLANDS OF LANGERHANS, PHYSIOLOGY RELATED	1.E.3.9	HYPERGLYCEMIA, URINE
1.A.4	ISLANDS OF LANGERHANS, PHARMACOLOGY RELATED	1.E.4	GLYCOSURIA
1.A.5	ISLANDS OF LANGERHANS, PATHOLOGY RELATED	1.E.4.1	GLYCOSURIA, CHEMICALLY INDUCED
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1.B.2	PANCREAS, BIOCHEMISTRY RELATED	1.E.4.4	GLYCOSURIA, DRUG THERAPY
1.B.3	PANCREAS, PHYSIOLOGY RELATED	1.E.4.5	GLYCOSURIA, ENZYMOLOGY
1.B.4	PANCREAS, PHARMACOLOGY RELATED	1.E.4.6	GLYCOSURIA, ETIOLOGY
1.B.5	PANCREAS, PATHOLOGY RELATED	1.E.4.7	GLYCOSURIA, METABOLISM
1.B.6	PANCREAS, SURGERY RELATED	1.E.4.8	GLYCOSURIA, OCCURRENCE
1.B.6.1	PANCREAS, TRANSPLANTATION	1.E.5	GLYCOSURIA, RENAL
1.B.6.2	PANCREATECTOMY	1.E.6	HYPOGLYCEMIA
1.C	INSULIN	1.E.6.1	HYPOGLYCEMIA, BLOOD
1.C.1	INSULIN, BIOCHEMISTRY RELATED	1.E.6.2	HYPOGLYCEMIA, CHEMICALLY INDUCED
1.C.1.1	INSULIN, ISOLATION AND PURIFICATION	1.E.6.3	HYPOGLYCEMIA, COMPLICATIONS
1.C.1.2	INSULIN, ANALYSIS	1.E.6.4	HYPOGLYCEMIA, DIAGNOSIS
1.C.1.3	INSULIN, CHEMICAL SYNTHESIS	1.E.6.5	HYPOGLYCEMIA, DRUG THERAPY
1.C.1.4	INSULIN, BIOSYNTHESIS	1.E.6.6	HYPOGLYCEMIA, ETIOLOGY
1.C.1.5	INSULIN, METABOLISM	1.E.6.7	HYPOGLYCEMIA, METABOLISM
1.C.1.6	INSULIN, BLOOD	1.E.6.8	HYPOGLYCEMIA, PHYSIOPATHOLOGY
1.C.1.7	INSULIN, URINE	1.E.6.9	HYPOGLYCEMIA, THERAPY
1.C.2	INSULIN, PHYSIOLOGY RELATED	1.F	DIABETES
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1.C.2.2	INSULIN, SECRETION	1.F.2	DIABETES MELLITUS
1.C.3	INSULIN, PHARMACOLOGY RELATED	1.F.2.1	DIABETES MELLITUS, JUVENILE
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1.C.6	INSULIN RESISTANCE	1.F.5	DIABETES, IMMUNOLOGY
1.C.7	INSULIN, THERAPY RELATED	1.F.6	DIABETES COMPLICATIONS AND PATHOLOGY
1.C.7.1	INSULIN, DIAGNOSTIC USE	1.F.6.1	DIABETIC KETOACIDOSIS
1.C.7.2	INSULIN ADMINISTRATION AND DOSAGE (SEE 1.F.9.3.1)	1.F.6.1.1	ACIDOSIS, DIABETIC
1.C.7.3	INSULIN, THERAPEUTIC USE (SEE 1.F.9.3.2)	1.F.6.1.2	DIABETIC COMA
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1.D	GLUCAGON	1.F.6.3	DIABETIC NEPHROPATHIES
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1.D.3.1	GLUCAGON, ADMINISTRATION AND DOSAGE	1.F.7.3	DIABETES, CONGENITAL
1.D.3.2	GLUCAGON, PHARMACODYNAMICS	1.F.7.4	DIABETES, FAMILIAL AND GENETIC
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## Arrangement of the Hierarchical Index

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## SECTION 1. DIABETES MELLITUS AND RELATED TOPICS

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### 1.F DIABETES

#### 1.F.1 ALLOXAN DIABETES (SEE SEC. 1.F.10.2)

#### 1.F.2 DIABETES MELLITUS

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### 1.F.6 DIABETES COMPLICATIONS AND PATHOLOGY

#### 1.F.6.1 DIABETIC KETOACIDOSIS

##### 1.F.6.1.1 ACIDOSIS, DIABETIC

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#### 1.F.7.4 DIABETES, FAMILIAL AND GENETIC

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#### 1.F.7.5 PREDIABETIC STATE

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**CARRIED OUT IN MARCALLO AND CASONE]** Anonymous *Prof Inferm* 26:89-91, May-Jun 73 (Ita)

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### 1.F.8 DIABETES, DIAGNOSIS RELATED

#### 1.F.8.1 GLUCOSE TOLERANCE TEST (SEE SEC. 1.E.2)

#### 1.F.8.2 DIABETES, DIAGNOSIS

**[GLUCOSE TOLERANCE, INSULIN SENSITIVITY, INSULIN ACTIVITY OF THE BLOOD AND SINALBUMIN INSULIN ANTAGONIST IN CHILDREN AND ADOLESCENTS WITH DIABETES MELLITUS HEREDITY]** Kniazev luA, Smulii LA, Shunaeva EN *Pediatrriia* 52:3-10, Oct 73 (Rus)

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**[INSULIN THERAPY IN LABILE OR JUVENILE DIABETES MELLITUS: 1 OR 2 INJECTIONS PER DAY]** Catellier C *Union Med Can* 103:491-7, Mar 74 (Fre)

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### 1.F.9.1 DIABETES, PREVENTION AND CONTROL

### 1.F.9.2 DIABETES, NUTRITION AND DIET THERAPY

#### 1.F.9.2.1 OBESITY IN DIABETES

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## 2.D PARATHYROID GLANDS

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## 2.E PITUITARY GLAND

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### 2.E.1 PITUITARY HORMONES, ANTERIOR

#### 2.E.1.1 CORTICOTROPIN

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### 2.E.4 PITUITARY HORMONE RELEASING FACTORS

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**CHILDHOOD ACROMEGALY: SUCCESSFUL THERAPY WITH CONVENTIONAL RADIATION AND EFFECTS OF CHLORPROMAZINE ON GROWTH HORMONE AND PROLACTIN SECRETION.** AvRuskin TW, Sau K, Tang S, Juan C *J Clin Endocrinol Metab* 37:380-8, Sep 73 (Eng)

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### Barnett CA

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DIABETIC ARTERIOPATHIES. Tingaud R, Masse C, Boissieras P, Baste JC, Plagnol P *J Cardiovasc Surg (Torino)* 15:54-61, Jan-Feb 74 (Eng)

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[DETERMINATION OF THE GLUCOSE CONTENT IN THE BLOOD OF COWS] Bekhterev SI *Veterinariia* 7:81, Jul 73 (Rus)

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ADOLESCENCE; CHILD; CHILD, PRESCHOOL; DWARFISM (urine); INSULIN (urine); TURNERS SYNDROME (urine).

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[UTILISATION AND METABOLIC BEHAVIOUR OF SORBITOL DURING LONG-TERM PARENTERAL PERFUSIONS (AUTHORS TRANSL)] Bickel H, Matzkies F, Fekl W, Berg G *Dtsch Med Wochenschr* 98:2079-83, 2 Nov 73 (Ger)

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FRUCTOSE (administration & dosage); GLUCOSE (metabolism); INFUSIONS, PARENTERAL; SORBOSE (administration & dosage); XYLOSE (administration & dosage).

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ON THE MOLECULAR BASIS OF PYRUVATE KINASE DEFICIENCY. I. PRIMARY DEFECT OR CONSEQUENCE OF INCREASED GLU-

TATHIONE DISULFIDE CONCENTRATION. Berkel TJ van, Koster JF, Staal GE *Biochim Biophys Acta* 321:496-502, 10 Oct 73 (Eng)

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RETICULOENDOTHELIAL SYSTEM PHAGOCYTOSIS IN DIABETES MELLITUS. Berken A, Sherman AA *Diabetes* 23:218-20, Mar 74 (Eng)

ADRENAL GLAND HYPOFUNCTION (therapy); ADULT; AGED; DIABETES MELLITUS (immunology); DIABETIC RETINOPATHY (immunology); MIDDLE AGE; PHAGOCYTOSIS; RETICULOENDOTHELIAL SYSTEM (physiopathology); SERUM ALBUMIN, RADIO-IODINATED.

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EFFECT OF DORSOMEDIAL HYPOTHALAMIC LESIONS BEFORE AND AFTER PLACEMENT OF OBESITY-PRODUCING VENTROMEDIAL HYPOTHALAMIC LESIONS IN THE WEANLING MALE RAT. Bernardis LL, Chlouverakis C, Schnatz JD, Frohman LA *Brain Res* 69:67-75, 29 Mar 74 (Eng)

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PORTAL AND PERIPHERAL VEIN IMMUNOREACTIVE GLUCAGON CONCENTRATIONS AFTER ARGININE OR GLUCOSE INFUSIONS. Blackard WG, Nelson NC, Andrews SS *Diabetes* 23:199-202, Mar 74 (Eng)

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### Boisch KH

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COMBINED SURGICAL AND MEDICAL THERAPY OF DIABETIC ANGIOPATHY IN STAGE 4TH. Brunner U, Petropoulos P, Bollinger A *J Cardiovasc Surg (Torino)* 15:10-1, Jan-Feb 74 (Eng)

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**Fallat R**

**FAMILIAL HYPERTRIGLYCERIDEMIA: STUDIES IN 130 CHILDREN AND 45 SIBLINGS OF 36 INDEX CASES.** Glueck CJ, Tsang R, Fal-lat R, Buncher CR, Evans G, Steiner P *Metabolism* 22:1287-309, Oct 13 (Eng)

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**GLUCOSE METABOLISM AND INSULIN SECRETION IN THE NEWBORN INFANT. COMPARISONS BETWEEN THE RESPONSES OBSERVED THE FIRST AND SEVENTH DAY OF LIFE TO INTRAVENOUS AND ORAL GLUCOSE TOLERANCE TESTS.** Falorni A, Fracassini F, Massi-Benedetti F, Maffei S *Diabetes* 23:172-8, Mar 74 (Eng)

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**[EXTRA-GASTRIC EFFECTS OF PENTAGASTRIN: FURTHER DATA SUPPORTING THE INSULIN-SECRETORY EFFECT]** Ferraro O, Zimbaro G, Familiari L, Consolo F *Boll Soc Ital Biol Sper* 49:107-12, 15 Feb 73 (Ita)

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METAMORPHOSIS, BIOLOGICAL; RANA PIPIENS.

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[ACTIVITY OF HEXOKINASE AND DEHYDROGENASES OF THE PENTOSE PHOSPHATE PATHWAY IN SYMPLECTOTOMIZED RAT TESTES] Fomina MP, Grekova NI *Zh Evol Biokhim Fiziol* 9:51-5, Jan-Feb 73 (Rus)



GLUCOSEPHOSPHATE DEHYDROGENASE (metabolism); HEXOKINASE (metabolism); MITOCHONDRIA (enzymology); PHOSPHOGLUCONATE DEHYDROGENASE (metabolism); RATS; SYMPATHECTOMY; SYMPATHETIC NERVOUS SYSTEM (physiology); TESTIS (enzymology, innervation).

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INFLUENCE OF ABO BLOOD GROUPS AND FIBRINOGEN ON THROMBUS FORMATION AND AGGREGATION OF RED CELLS IN CARDIOVASCULAR AND MALIGNANT DISEASES: NEW ASPECTS OF BIORHEOLOGICAL CHARACTERIZATION OF DISEASE. Dintenfass L, Stewart JH, Milton GW, Forbes CD *Biorheology* 10:585-94, Dec 73 (Eng)

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HYPERINSULIN RESPONSE TO ORAL LEUCINE IN OBESITY AND ACROMEGALY. Johnson S, Karam JH, Levin SR, Grodsky GM, Forsham PH *J Clin Endocrinol Metab* 37:431-5, Sep 73 (Eng)

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BINDING, COMPETITIVE; BUFFERS; CATTLE; DIALYSIS; PHOSPHATES; PROTEIN BINDING; SERUM ALBUMIN (metabolism); SERUM ALBUMIN, BOVINE (metabolism); SULFONYLUREA COMPOUNDS (blood); TROMETHAMINE.

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ADMINISTRATION, ORAL; ADOLESCENCE; AGE FACTORS; CHILD; DIPHENYLHYDANTOIN (pharmacodynamics, therapeutic use, adverse effects); EPILEPSY, GRAND MAL (drug therapy); GLUCOSE (administration & dosage); GLUCOSE TOLERANCE TEST; INSULIN (blood); JACKSONIAN SEIZURE (drug therapy); TIME FACTORS.

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AGE FACTORS; ANIMALS, NEWBORN; CELL NUCLEUS (analysis, enzymology); CHROMATIN (analysis); EMBRYO (enzymology); GLUCOSEPHOSPHATASE (isolation & purification, metabolism); GLUCOSEPHOSPHATES (metabolism); HEXOSEPHOSPHATES (metabolism); HISTOCYTOCHEMISTRY; LIVER (enzymology); MICROSCOPY, ELECTRON; MICROSCOPY, INTERFERENCE; MICROSCOPY, PHASE CONTRAST; MICROSOMES, LIVER (enzymology); PHOSPHATASES (metabolism); PHOSPHOLIPIDS (analysis); PHOSPHOTRANSFERASES (metabolism); PYROPHOSPHATES (metabolism); RATS; SURFACE-ACTIVE AGENTS (pharmacodynamics).

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**ADOLESCENCE; CHILD; CHILD, PRESCHOOL; DIABETES MELLITUS, JUVENILE (familial & genetic); KARYOTYPING; LAURENCE-MOON-BIEDL SYNDROME (familial & genetic); MYXEDEMA (familial & genetic); SEX CHROMATIN; SEX CHROMOSOME ABNORMALITIES (familial & genetic).**

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[GLUCOSE TOLERANCE, INSULIN SENSITIVITY, INSULIN ACTIVITY OF THE BLOOD AND SINALBUMIN INSULIN ANTAGONIST IN CHILDREN AND ADOLESCENTS WITH DIABETES MELLITUS HEREDITY] Kniazev IuA, Smulii LA, Shunaeva EN *Pediatrriia* 52:3-10, Oct 73 (Rus)

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# Pinto M

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IMPAIRMENT OF GROWTH HORMONE AND INSULIN SECRETION IN HYPERTHYROIDISM. Cavagnini F, Peracchi M, Raggi U, Bana R, Pontiroli AE, Malinverni A, Pinto M *Eur J Clin Invest* 4:71-7, Feb 74 (Eng)

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BLOOD UREA NITROGEN; CIRCADIAN RHYTHM; INFANT, NEWBORN; INFANT, NEWBORN, DISEASES (metabolism); INFANT, PREMATURE, DISEASES (metabolism); PREGNANCY; PREGNANCY IN DIABETES (metabolism); PROTEINS (metabolism); UREA (urine).

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BINDING, COMPETITIVE; CALCIUM (pharmacodynamics); CELL MEMBRANE (metabolism); DIABETES MELLITUS; GESTATIONAL AGE; GLUCAGON (metabolism); GUINEA PIGS; HAMSTERS; INSULIN (metabolism); IODINE RADIOISOTOPES; MATERNAL-FETAL EXCHANGE; MONKEYS; NEURAMINIDASE (pharmacodynamics); PEPTIDE HYDROLASES (pharmacodynamics); PHOSPHOLIPASE (pharmacodynamics); PLACENTA (metabolism); PREGNANCY; PROINSULIN (pharmacodynamics); PROLACTIN (metabolism); RABBITS; RATS; RECEPTORS, HORMONE; RIBONUCLEASE (pharmacodynamics); SODIUM CHLORIDE (pharmacodynamics); SOMATOTROPIN (metabolism); SPECIES SPECIFICITY; TEMPERATURE; TIME FACTORS.

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CARDIORESPIRATORY DISEASE AND DIABETES AMONG MIDDLE-AGED MALE CIVIL SERVANTS. A STUDY OF SCREENING AND INTERVENTION. Reid DD, Brett GZ, Hamilton PJ, Jarrett RJ, Keen H, Rose G *Lancet* 1:469-73, 23 Mar 74 (Eng)

ADULT; BLOOD SUGAR (analysis); BODY HEIGHT; BODY WEIGHT; BRONCHITIS (diagnosis); CARDIOVASCULAR DISEASES (diagnosis); CORONARY DISEASE (diagnosis, etiology, physiopathology, prevention & control); DIABETES MELLITUS (diagnosis); ELECTROCARDIOGRAPHY; HEALTH SURVEYS; HEART (physiopathology); LUNG (radiography); LUNG NEOPLASMS (diagnosis); MASS SCREENING; MIDDLE AGE; OCCUPATIONS; QUESTIONNAIRES; RESPIRATORY AIRFLOW; SMOKING (prevention & control); TUBERCULOSIS; PULMONARY (diagnosis); VITAL CAPACITY.

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BLOOD SUGAR (analysis); CARBON RADIOISOTOPES; DEXTRAN (administration & dosage, pharmacodynamics); DOGS; ELECTROPHORESIS; FATTY ACIDS, NONESTERIFIED (blood); HEPARINOID (pharmacodynamics); HYPERTHYROIDISM (blood); HYPOTHYROIDISM (blood); INJECTIONS, INTRAVENOUS; IODINE (blood); IODINE

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MATOTROPIN (blood, secretion); SOMATOTROPIN-RELEASING HORMONE (pharmacodynamics); TIME FACTORS.

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REMISSION PHASE IN NEWLY DIAGNOSED INSULIN TREATED JUVENILE DIABETES: BEHAVIOUR OF GLUCOSE, FFA, HGH AND TOTAL-IRI DURING COMBINED GLUCOSE ARGinine INFUSION; DEVELOPMENT OF ANTIBODIES AGAINST EXOGENOUS INSULIN. Menzel R, Michaelis D, Neumann I, Schultz B, Wilke W, Wulfert P, Michael R, Bibergeil H *Endokrinologie* 62:100-6, 1973 (Eng)

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GANGLIONEUROMA (surgery); GOITER, EXOPHTHALMIC (surgery); HEPATOMA (surgery); HYPERALDOSTERONISM (surgery); HYPERTHYROIDISM (surgery); HYPOGLYCEMIA (surgery); INFANT; LIVER NEOPLASMS (surgery); NEUROBLASTOMA (radiotherapy, surgery); OVARIAN NEOPLASMS (surgery); PARATHYROID NEOPLASMS (surgery); PHEOCHROMOCYTOMA (diagnosis, surgery); PUBERTY, PRECOCIOUS (surgery); SEX DIFFERENTIATION DISORDERS (surgery); TESTICULAR NEOPLASMS (surgery); THYROID DISEASES (surgery); THYROID NEOPLASMS (surgery); ZOLLINGER-ELLISON SYNDROME (surgery).

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APPETITE; BLOOD SUGAR; BODY WEIGHT; DRINKING; EATING (drug effects); FOOD DEPRIVATION; GLUCOSE (administration & dosage, pharmacodynamics); HYPOTHALAMUS (physiology); INTUBATION, GASTROINTESTINAL; OSMOLAR CONCENTRATION; RATS; SACCHARIN; SATIATION (drug effects); TASTE.

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RESTORATION OF SOME ENERGY LINKED PROCESSES LOST DURING THE AGEING OF RAT LIVER MITOCHONDRIA. Siliprandi D, Siliprandi N, Scutari G, Zoccarato F *Biochem Biophys Res Commun* 55:563-7, 10 Dec 73 (Eng)

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THE ABSORPTION OF PROTONS WITH SPECIFIC AMINO ACIDS AND CARBOHYDRATES BY YEAST. Seaston A, Inkson C, Eddy AA *Biochem J* 134:1031-43, Aug 73 (Eng)

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ON THE POSSIBILITY OF SELF-OSCILLATIONS IN THE LOWER PART OF THE GLYCOLYTIC SYSTEM. Dymnik VV, Sel'kov EE *Fests Lett* 37:1, Dec 73 (Eng)

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CHOLESTEROL IN MYCOPLASMA MEMBRANES. CORRELATION OF ENZYMIC AND TRANSPORT ACTIVITIES WITH PHYSICAL STATE OF LIPIDS IN MEMBRANES OF MYCOPLASMA MYCOIDES VAR. CAPRI ADAPTED TO GROW WITH LOW CHOLESTEROL CONCENTRATIONS. Rottem S, Cirillo VP, Kruyff B de, Shinitzky M, Razin S *Biochim Biophys Acta* 323:509-19, 16 Nov 73 (Eng)

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ANEURYSM (chemically induced); BILE DUCT NEOPLASMS (chemically induced, pathology); CAPILLARIES (drug effects); CATARACT (chemically induced); CHOLANGIOMA (chemically induced); DIABETES MELLITUS (drug therapy, chemically induced); DIABETIC RETINOPATHY (chemically induced); GLYCOURIA (chemically induced); HAMSTERS; HYPERGLYCEMIA (chemically induced); INJECTIONS, INTRAPERITONEAL; INSULIN, PROTAMINE ZINC (therapeutic use); LIVER (drug effects); LIVER NEOPLASMS (chemically induced, pathology); RETINAL ARTERY (drug effects); SARCOMA (chemically induced, pathology); STREPTOZOTOCIN (adverse effects).

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REHABILITATION OF GERIATRIC PATIENTS HAVING BILATERAL LOWER EXTREMITY AMPUTATIONS. Sakuma J, Hinterbuchner C, Green RF, Silber M *Arch Phys Med Rehabil* 55:101-11, Mar 74 (Eng)

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CALCIUM (metabolism); DITHIOHREITOL (pharmacodynamics); ENERGY TRANSFER; HYDROGEN-ION CONCENTRATION; MITOCHONDRIA, LIVER (drug effects, metabolism); OXIDATIVE PHOSPHORYLATION (drug effects); OXYGEN CONSUMPTION (drug effects); POTASSIUM (metabolism); RATS; TIME FACTORS; UNCOUPLING AGENTS (pharmacodynamics).

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CONCERTED REGULATION IN VITRO OF PHOSPHOENOLPYRUVATE CARBOXYLASE FROM ESCHERICHIA COLI. Silverstein R, Willis MS *J Biol Chem* 248:8402-7, 25 Dec 73 (Eng)

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ADRENAL GLAND NEOPLASMS (diagnosis); ADULT; BLOOD PRESSURE; EPINEPHRINE (blood); GLUCAGON (diagnostic use); HORMONES, ECTOPIC (blood); NOREPINEPHRINE (blood); PHEOCHROMOCYTOMA (blood, diagnosis); SPECTROMETRY, FLUORESCENCE; TIME FACTORS.

## Simon LN

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ADENOSINE CYCLIC 3,5 MONOPHOSPHATE (pharmacodynamics); BINDING SITES; CRYSTALLOGRAPHY; GLYCOGEN PHOSPHORYLASE (metabolism); GUANOSINE CYCLIC 3,5 MONOPHOSPHATE; KINETICS; LIPIDS (metabolism); MODELS, STRUCTURAL; MOLECULAR CONFORMATION; NEOPLASMS, EXPERIMENTAL (metabolism); NUCLEOTIDES, CYCLIC (chem synthesis, metabolism); ORGAN SPECIFICITY; PHOSPHODIESTERASES (metabolism); PROTEIN BINDING; PROTEIN KINASE (metabolism); RECEPTORS, DRUG; SPECIES SPECIFICITY; STRUCTURE-ACTIVITY RELATIONSHIP; THERMODYNAMICS.

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[A NEW ANTIDIABETIC AGENT: GLYCLA-ZIDE. A STUDY OF GLYCEMIC REGULATION] Bour H, Denard Y, Plauchu M, Rathery M, Simonin R, Thervet F, Warenbourg H *Nouv Presse Med* 3:249-51, 2 Feb 74 (Fre)

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LETTER: ACUTE PANCREATITIS AND DIABETIC KETOACIDOSIS IN HYPOTHERMIA. Sloan RE *Br Med J* 1:245, 9 Feb 74 (Eng)  
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ACUTE MYOCARDIAL INFARCTION AND MUSCLE SALVAGE: A POTENTIAL ROLE FOR PHARMACOLOGICAL AGENTS. Smith ER *Can J Surg* 17:84-8, Mar 74 (Eng) [26]  
ADENOSINE (therapeutic use); ADRENERGIC ALPHA RECEPTOR AGONISTS (therapeutic use); AORTOCORONARY BYPASS; ASSISTED CIRCULATION; COLLATERAL CIRCULATION; CORONARY CIRCULATION; DIGITALIS GLYCOSIDES (therapeutic use); DIURETICS (therapeutic use); ELECTRIC STIMULATION; GLUCOCORTICOID (therapeutic use); GLUCOSE (therapeutic use); GLYCERYL TRINITRATE (therapeutic use); HYALURONIDASE (therapeutic use); INSULIN (therapeutic use); ISCHEMIA (drug therapy); MYOCARDIAL INFARCT (surgery, drug therapy); MYOCARDIUM (metabolism, pathology); NECROSIS; OXYGEN (therapeutic use); OXYGEN CONSUMPTION; POTASSIUM (therapeutic use); PROPRANOLOL (adverse effects, therapeutic use); VENTRICULAR FIBRILLATION (etiology).

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ACIDOSIS (chemically induced); BLOOD SUGAR (metabolism); CHILD, PRESCHOOL; DIAZOXIDE (administration & dosage, adverse effects, therapeutic use); FOLLOW-UP STUDIES; GLUCOSE (pharmacodynamics); GLUCOSE TOLERANCE TEST; HYPERTRICHOSIS (chemically induced); HYPOGLYCEMIA (complications, congenital, drug therapy); INFANT; INFANT, NEWBORN; INSULIN (blood); LEUCINE (diagnostic use); MENTAL RETARDATION (etiology); STIMULATION, CHEMICAL; TIME FACTORS.

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**STIMULATING EFFECT OF DIBUTYRYL CYCLIC ADENOSINE 3,5 MONOPHOSPHATE ON PROTEIN SYNTHESIS IN A THYROIDAL CELL-FREE SYSTEM AT LOW POTASSIUM AND SODIUM CONCENTRATIONS.** Wagar G *Acta Endocrinol (Kbh)* 74:711-22, Dec 73 (Eng)

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ACTION POTENTIALS; DIABETIC NEUROPATHIES (diagnosis, physiopathology); ELECTRIC STIMULATION; NEURAL CONDUCTION; PERONEAL NERVE (physiopathology); REFLEX, MONOSYNAPTIC; REFRACTORY PERIOD, NEUROLOGIC.

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EVALUATION STUDIES; HEALTH EDUCATION; OBESITY (therapy).

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CELL-FREE SYNTHESIS OF RAT GROWTH HORMONE. Bancroft FC, Wu GJ, Zubay G *Proc Natl Acad Sci USA* 70:3646-9, Dec 73 (Eng)

**Zukowski SJ**

POLARIZING SOLUTIONS IN TREATMENT OF ARRHYTHMIAS. Zukowski SJ *J Am Osteopath Assoc* 73:131-8, Oct 73 (Eng) [46]

ARRHYTHMIA (chemically induced, drug therapy); BLOOD PRESSURE; CELL MEMBRANE (drug effects); DOGS; DRUG THERAPY, COMBINATION; ELECTROCARDIOGRAPHY; EPINEPHRINE; GLUCOSE (administration & dosage, metabolism, therapeutic use); INSULIN (administration & dosage, metabolism, therapeutic use); MYOCARDIAL INFARCT (complications); MYOCARDIUM (metabolism); POTASSIUM (administration & dosage, metabolism, therapeutic use); VENOUS PRESSURE.

**Zupping KA**

EVIDENCE FOR TWO TYPES OF JUVENILE OBESITY ON THE BASIS OF BODY COMPOSITION AND INSULIN RELEASE FOLLOWING SMALL DOSES OF GLUCOSE. Jacot JP, Zupping KA, Joss EE, Donath A *Klin Wochenschr* 51:1109-14, 15 Nov 73 (Eng)

**Zweig JI**

EFFECTS OF LYSINE ON AMMONIA FORMATION, HYDROGEN ION, AND POTASSIUM ION BALANCE: A REVIEW AND AN HYPOTHESIS. Zweig JI *Clin Chem* 19:943-9, Sep 73 (Eng) [53]

ACID-BASE EQUILIBRIUM (drug effects); ADOLESCENCE; ADULT; AMMONIA (biosynthesis); BIOLOGICAL TRANSPORT (drug effects); CYSTINURIA (metabolism); DIABETES MELLITUS (metabolism); DOGS; DOSE-RESPONSE RELATIONSHIP, DRUG; HEPATIC COMA (metabolism); HYDROGEN (metabolism); HYPOKALEMIA (metabolism); INSULIN (pharmacodynamics); LIVER CIRRHOSIS (metabolism); LIVER DISEASES (metabolism); LYSINE (blood, urine, pharmacodynamics); POTASSIUM (metabolism); PREGNANCY; UREA (biosynthesis).

**Zweymuller E**

[50 YEARS OF INSULIN TREATMENT AT VIENNA'S CHILDREN CLINIC—FATE OF DIABETIC CHILDREN FROM THE FIRST INSULIN ERA] Korp W, Zweymuller E *Wien Klin Wochenschr* 85:385-90, 25 May 73 (Ger)

**Anonymous**

SELENIUM: AN ESSENTIAL ELEMENT FOR GLUTATHIONE PEROXIDASE ACTIVITY. Anonymous *Nutr Rev* 31:289-91, Sep 73 (Eng) [12]

DEFICIENCY DISEASES (blood, drug therapy, enzymology); ERYTHROCYTES (enzymology); FATTY ACIDS, UNSATURATED (metabolism); GLUTATHIONE; NUTRITIONAL REQUIREMENTS; OXIDATION-REDUCTION; PEROXIDASES (blood, metabolism); PEROXIDES (metabolism); RADIOISOTOPES; RATS; SELENIUM (physiology, therapeutic use, metabolism); VITAMIN E (physiology, metabolism).

GROWTH HORMONE AND SEROTONIN ANTAGONIST. Anonymous *N Engl J Med* 289:870-1, 18 Oct 73 (Eng)

ACROMEGALY (metabolism); ALUMINUM HYDROXIDE GEL (pharmacodynamics); CYPROHEPTADINE (pharmacodynamics);

METHYLERGIDE (pharmacodynamics); MIDDLE AGE; SEROTONIN (blood, antagonists & inhibitors); SOMATOTROPIN (secretion).

REGULAR ASPIRIN INTAKE AND ACUTE MYOCARDIAL INFARCTION. Anonymous *Br Med J* 1:440-3, 9 Mar 74 (Eng)

ADULT; AGE FACTORS; AGED; ARTHRITIS (drug therapy); ASPIRIN (therapeutic use); DIABETES MELLITUS (drug therapy); HYPERTENSION (drug therapy); MIDDLE AGE; MYOCARDIAL INFARCT (occurrence, prevention & control); PLATELET ADHESIVENESS (drug effects); SEX FACTORS.

[REPORT BY THE STUDENTS OF THE SCHOOL DURING THEIR AFFILIATION TERM, ON THE OCCASION OF THEIR ACTION ON EARLY DIAGNOSIS OF DIABETES, CARRIED OUT IN MARCALLO AND CASONE] Anonymous *Prof Inform* 26:89-91, May-Jun 73 (Ita)

DIABETES MELLITUS (diagnosis); MASS SCREENING; PREDIABETIC STATE (diagnosis); STUDENTS, NURSING.

[ON THE PATH OF TECHNICAL SYNTHESIS OF INSULIN] Anonymous *Ther Ggw* 113:382 PASSIM, Mar 74 (Ger)

CHEMICAL INDUSTRY; INSULIN (chemical synthesis).

INSULIN REACTIONS IN A BRITTLE DIABETIC. NURSING GRAND ROUNDS. Anonymous *Nursing (Jenkintown)* 2:6-11, May 72 (Eng)

ATTITUDE OF HEALTH PERSONNEL; COMMUNICATION; COOPERATIVE BEHAVIOR; DIABETES MELLITUS (metabolism); DIABETIC DIET; INSULIN (adverse effects); NURSE-PATIENT RELATIONS; STRESS, PSYCHOLOGICAL.

THE ORAL HYPOGLYCAEMIC AGENTS REASSESS. Anonymous *Drug Ther Bull* 12:17-20, 1 Mar 74 (Eng)

ADMINISTRATION, ORAL; ANTIDIABETICS (administration & dosage, adverse effects, therapeutic use); BIGUANIDES (therapeutic use); DIABETES MELLITUS (drug therapy); SULFONYLUREA COMPOUNDS (therapeutic use).

MAKING THE PATIENT A PART OF PATIENT CARE. Anonymous *Mod Hosp* 121:105-10, Oct 73 (Eng)

ADAPTATION, PSYCHOLOGICAL; AUDIO-VISUAL AIDS; CEREBROVASCULAR DISORDERS (rehabilitation); DIABETES MELLITUS (therapy); DIET; DIET THERAPY; DIETARY FATS; HEALTH EDUCATION; HOSPITAL NURSING SERVICE; HOSPITAL PERSONNEL; HOSPITAL PHARMACY SERVICE; HYPERTENSION; NEOPLASMS; PATIENTS (education); SOCIAL CLUBS.

THE ROLE OF INSULIN AND GROWTH HORMONE IN CHILDHOOD OBESITY.

Anonymous *Nutr Rev* 29:163-5, Jul 71 (Eng) [2]

ARGININE (diagnostic use); BLOOD SUGAR (metabolism); CHILD; CHILD, PRESCHOOL; GLUCOSE TOLERANCE TEST; INSULIN (diagnostic use, secretion); OBESITY (physiopathology, etiology); SOMATOTROPIN (secretion).

RATES OF SYNTHESIS AND DEGRADATION OF HEPATIC ACETYL COA CARBOXYLASE IN FED, FASTED, FASTED-REFED, AND DIABETIC RATS. Anonymous *Nutr Rev* 29:167-70, Jul 71 (Eng) [17]

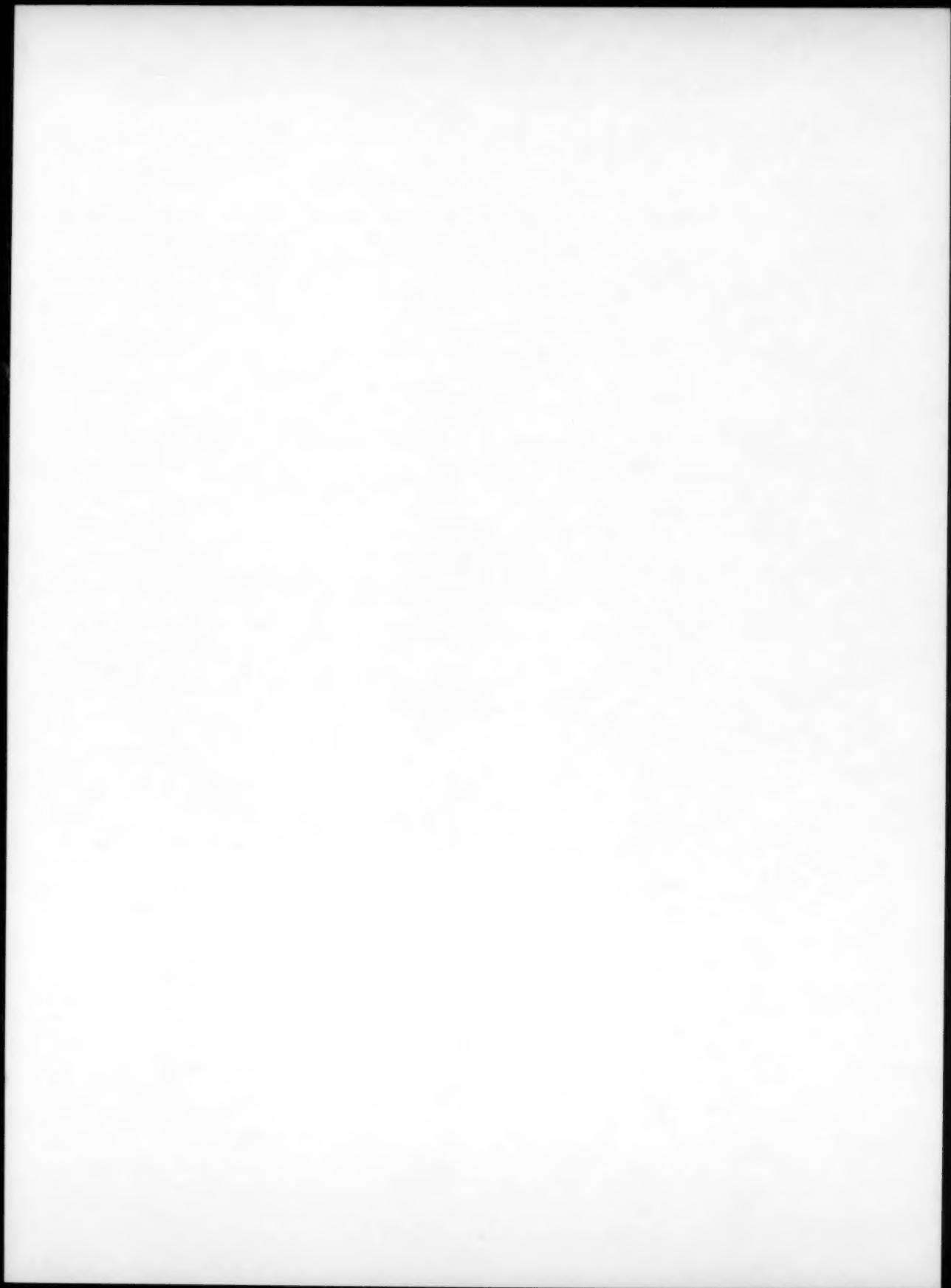
ACETYL COA CARBOXYLASE (biosynthesis, isolation & purification, metabolism); ALLOXAN DIABETES (metabolism); ANIMAL NUTRITION; CHICKENS; CROSS REACTIONS; DIETARY PROTEINS (administration & dosage); FASTING; GEL DIFFUSION TESTS; KINETICS; LEUCINE (metabolism); LIGASES (metabolism); LIVER (anatomy & histology, enzymology); ORGAN WEIGHT; RABBITS (immunology); RATS; SPECIES SPECIFICITY; TRITUM.











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